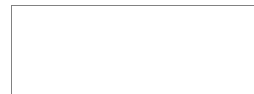


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Summary Report

NATIONAL PHOTOGRAPHIC
INTERPRETATION CENTER

COMMUNICATIONS TRAINING FACILITIES AT OREL MILITARY INSTALLATION AND URALSK ARMY BARRACKS, USSR (S)

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SR-057/77

AUGUST 1977

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NOFORN-	Not Releasable to Foreign Nationals
NOCONTRACT-	Not Releasable to Contractors or Contractor/Consultants
PROPIN-	Caution-Proprietary Information Involved
USIBONLY-	USIB Departments Only
ORCON-	Dissemination and Extraction of Information Controlled by Originator
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COMMUNICATIONS TRAINING FACILITIES AT OREL MILITARY INSTALLATION AND URALSK ARMY BARRACKS, USSR (S)

(TSR) Communications training facilities were identified for the first time at the Orel Military Installation [redacted] in the Moscow Military District, USSR, and at the Uralsk Army Barracks [redacted] in the Central Asian Military District, USSR, on photography [redacted] TA-EL-01 (previously designated as unidentified stowed antenna van trucks) were also observed at Orel and Uralsk, which represents the first time TA-EL-01 have been identified at training facilities.

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(TSR) The presence of extensive training and recreational facilities and classroom buildings and the lack of major vehicle parking facilities at Orel suggest that it has a training function. Other facilities include a possible command and control bunker under construction and a hexagonal school or administration building with two TWIN PLATE antennas mounted on the roof (Figure 1). The antennas were oriented in a south-southeast direction [redacted]

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(TSR) In addition to the facilities at Orel, a mixture of troposcatter, radio relay, radio, and mobile communications satellite (comsat) equipment in a vehicle park 812 meters west of the installation indicates that the school functions as a training school for troops at all command levels. The mobile electronic equipment includes the following: two TWIN EAR antennas, two TA-EL-01, one mobile comsat set, one R-14 (TWIN PLATE) set, two R-409 (CATS PAW), two R-400/404 sets, two R-125, four R-102M/140, approximately 50 radio van trucks, and 12 generator trailers (Figure 2). When the TA-EL-01 is observed in travel mode, a large, usually canvas-covered protrusion extends over the cab of the vehicle.

(TSR) A similar grouping of vehicles and facilities seen at Uralsk Army Barracks in the Central Asian Military District [redacted] suggests that this installation is also a communications school (Figure 3). Equipment observed included one TA-EL-01, one mobile comsat antenna set, four CATS PAW, one R-400/404 radio relay set, two R-118-BM3, three unidentified van trucks, six unidentified vehicles, and 32 other vehicles.

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(TSR) The TA-EL-01 vehicle at Uralsk was observed on a hardstand in a partially operational mode (inset, Figure 3). Two antenna dishes [redacted] were mounted over the engine compartment of the vehicle [redacted]. The only other time the TA-EL-01 vehicle has been observed in a partially operational mode was at Taldy-Kurgan Army Barracks AL-3 [redacted]

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List of Conversion Factors by Classification

UNITS OF LENGTH

<i>IF YOU HAVE</i>	<i>MULTIPLY BY</i>	<i>TO OBTAIN</i>
MILLIMETERS	0.0394	INCHES
CENTIMETERS	0.3937	INCHES
INCHES	25.4000	MILLIMETERS
INCHES	2.5400	CENTIMETERS
FEET	0.3048	METERS
FEET	0.0003	KILOMETERS
YARDS	0.9144	METERS
METERS	3.2808	FEET
METERS	0.0005	MILES(NAUTICAL)
METERS	1.0936	YARDS
KILOMETERS	3280.8400	FEET
KILOMETERS	0.6214	MILES(STATUTE)
KILOMETERS	0.5400	MILES(NAUTICAL)
MILES(STATUTE)	1.6093	KILOMETERS
MILES(NAUTICAL)	6076.1154	FEET
MILES(NAUTICAL)	1.8520	KILOMETERS
MILES(NAUTICAL)	1852.0000	METERS

UNITS OF MASS

<i>IF YOU HAVE</i>	<i>MULTIPLY BY</i>	<i>TO OBTAIN</i>
KILOGRAMS	2.2046	POUNDS(AVOIR.)
POUNDS(AVOIR.)	0.4536	KILOGRAMS
SHORT TONS	0.9072	METRIC TONS
METRIC TONS	1.1023	SHORT TONS
METRIC TONS	0.9842	LONG TONS
LONG TONS	1.0160	METRIC TONS

UNITS OF VOLUME

<i>IF YOU HAVE</i>	<i>MULTIPLY BY</i>	<i>TO OBTAIN</i>
LITERS	0.2642	GALLONS
LITERS	0.0063	BARRELS(POL)
LITERS	0.0010	CUBIC METERS
GALLONS	3.7854	LITERS
GALLONS	0.1337	CUBIC FEET
GALLONS	0.0238	BARRELS(POL)
GALLONS	0.0038	CUBIC METERS
BUSHELS	0.0352	CUBIC METERS
CUBIC FEET	7.4805	GALLONS
CUBIC FEET	0.1781	BARRELS(POL)
CUBIC FEET	0.0283	CUBIC METERS
CUBIC YARDS	0.7646	CUBIC METERS
BARRELS(POL)	158.9873	LITERS
BARRELS(POL)	42.0000	GALLONS
BARRELS(POL)	5.6146	CUBIC FEET
BARRELS(POL)	0.1590	CUBIC METERS
CUBIC METERS	1000.0000	LITERS
CUBIC METERS	264.1721	GALLONS
CUBIC METERS	35.3147	CUBIC FEET
CUBIC METERS	28.3776	BUSHELS
CUBIC METERS	6.2898	BARRELS(POL)
CUBIC METERS	1.3080	CUBIC YARDS

UNITS OF AREA

<i>IF YOU HAVE</i>	<i>MULTIPLY BY</i>	<i>TO OBTAIN</i>
SQUARE CENTIMETERS	0.1550	SQUARE INCHES
SQUARE INCHES	6.4516	SQUARE CENTIMETERS
SQUARE FEET	0.0929	SQUARE METERS
SQUARE YARDS	0.8361	SQUARE METERS
SQUARE METERS	10.7639	SQUARE FEET
SQUARE METERS	1.1960	SQUARE YARDS
SQUARE METERS	1.0000	CENTARES
SQUARE METERS	0.0002	ACRES
SQUARE METERS	0.0001	HECTARES
ACRES	4046.8564	SQUARE METERS
ACRES	0.4047	HECTARES
HECTARES	10000.0000	SQUARE METERS
HECTARES	2.4711	ACRES

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